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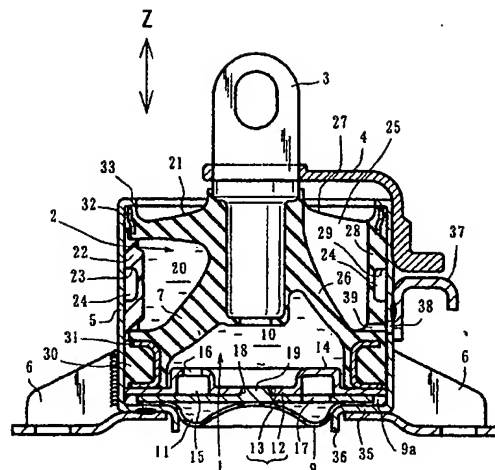
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(54) **Fluid-sealed anti-vibration device**

(57) A cone-shaped mounting 1 is provided in which a main fluid chamber 10 is formed by a first connecting member 3, a second connecting member 5, an elastic body member 7, a partition member 8 and a first orifice passage 15. Apart of an elastic wall of the main fluid chamber 10 is an inner wall of the elastic body member 7. The first orifice 15 communicates with a sub-fluid chamber 11. An input direction of a main vibration is arranged to be the Z-axis direction (the vertical direction of a car body). Side fluid chambers 20 and recessed chambers 25 are alternately provided at intervals of 90 in the circumferential direction on the outer circumference of the elastic body member 7. An outer wall of the elastic body member 7 forms a part of an elastic wall of the side fluid chambers 20. A pair of side fluid chambers 20 is disposed in the longitudinal direction of the car body. A second orifice 24 is arranged to communicate with the paired side fluid chambers to provide a cylindrical bushing section 2. The input direction of a main vibration is set in the longitudinal direction of the car body, while the side fluid chambers 20, 20 are arranged in the longitudinal direction thereof. With this arrangement, the vibration in the vertical direction can be reduced by the cone-shaped mounting section 1, the vibration in the longitudinal direction can be reduced by the cylindrical bushing section 2, by the liquid movement between the fluid chambers.

Fig. 2



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# EUROPEAN SEARCH REPORT

Application Number  
EP 00 12 7986

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The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 26 June 2003	Examiner Pirog, P
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date O : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
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## EUROPEAN SEARCH REPORT

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MUNICH		26 June 2003	Pirog, P	
CATEGORY OF CITED DOCUMENTS				
<p>X : particularly relevant if taken alone  Y : particularly relevant if combined with another document of the same category  A : technological background  O : non-written disclosure  P : intermediate document</p> <p>T : theory or principle underlying the invention  E : earlier patent document, but published on, or after the filing date  D : document cited in the application  L : document cited for other reasons  &amp; : member of the same patent family, corresponding document</p>				

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#### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

#### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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LACK OF UNITY OF INVENTION  
SHEET B

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-4

A fluid-sealed anti-vibration device comprising side fluid chambers being alternately provided with open recess chambers. The problem solved by this feature can be said to provide different damping of vibrations depending on the direction.

2. Claim : 5

A fluid-sealed anti-vibration device, wherein the partition member is provided as two overlapping members temporarily integrated with use of the tapered projection. The problem solved by this feature can be said to simplify assembly of the partition member (see the description, page 6, lines 22-25).

3. Claim : 6

A fluid-sealed anti-vibration device, wherein the partition member has an elastic partition member and a projecting portion of the first supporting member is provided which is in contact with the ring shape vertical wall portion of the elastic partition member. The problem solved by this feature can be said to expand tuning width of resonance of the elastic membrane being a part of the elastic partition member (see the description, page 7, lines 1-6).

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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26-06-2003

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